

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  FP-08-1042	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/yea	) (Earliest) Priority Da	te (day/month/year)	
PCT/GB 00/00462	T/GB 00/00462 10/02/2000 11/02/1999		02/1999	
Applicant  FMC CORPORATION et al.				
This international Search Report has bee according to Article 18. A copy is being to This international Search Report consists	•	Authority and is transmitted	d to the applicant	
l 655	a copy of each prior art document cited i	n this report.		
	International search was carried out on the	e basis of the international	application in the	
	less otherwise indicated under this item.  vas carried out on the basis of a translation	n of the international applica	ation furnished to this	
was carried out on the basis of the	nd/or amino acid sequence disclosed in ne sequence listing: onal application in written form.	the International application	, tire International search	
filed together with the int	ernational application in computer readab	e form.		
furnished subsequently t	o this Authority in written form.			
furnished subsequently t	o this Authority in computer readble form.			
	bsequently furnished written sequence lis as filed has been furnished.	ting does not go beyond the	disclosure in the	
the statement that the Inf furnished	the statement that the information recorded in computer readable form is identical to the written sequence listing has been			
2. Certain claims were for	und unsearchable (See Box I).			
3. Unity of invention is la	cking (see Box II).			
4. With regard to the title,				
X the text is approved as s	ubmitted by the applicant.	•		
the text has been establi	shed by this Authority to read as follows:			
5. With regard to the abstract,				
CONT.	the text is approved as submitted by the applicant.			
the text has been establi	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.			
6. The figure of the drawings to be pul	blished with the abstract is Figure No.	4	<del></del>	
as suggested by the app	ilcant.		None of the figures.	
because the applicant fa	• • • • • • • • • • • • • • • • • • • •			
because this figure bette	r characterizes the invention.			

GB 00/00462

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B33/035 E21B34/04 E21B33/038

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 319 795 A (VETCO GRAY INC ABB) 3 June 1998 (1998-06-03) abstract	1,25,33, 34,39
A	GB 2 261 271 A (ALPHA THAMES ENG) 12 May 1993 (1993-05-12) abstract	1,25,33, 34,39
A	EP 0 527 619 A (PETROLEO BRASILEIRO SA) 17 February 1993 (1993-02-17) abstract	1,33
A	US 4 832 124 A (RAYSON PETER J) 23 May 1989 (1989-05-23) figures	1

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
18 May 2000	24/05/2000
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentiaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo ni,  Fax: (+31–70) 340–3016	Authorized officer  Fonseca Fernandez, H

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International	Application No
GB	00/00462

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 610 364 A (ALSTHOM) 5 August 1988 (1988-08-05) abstract	1
A	US 4 461 354 A (BURAS ALLEN M ET AL) 24 July 1984 (1984-07-24) abstract	1,25
A	US 4 589 493 A (KELLY THOMAS P ET AL) 20 May 1986 (1986-05-20)	
A	GB 2 320 513 A (VETCO GRAY INC ABB) 24 June 1998 (1998-06-24)	
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tion on patent family members

**Publication** 

date

03-06-1998

12-05-1993

17-02-1993

23-05-1989

Patent document

cited in search report

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Α

A

A

GB 2319795

GB 2261271

EP 0527619

US 4832124

International Application No 'GB 00/00462 Patent family **Publication** member(s) date US 5971077 A 26-10-1999 BR 9206734 A 21-11-1995 EP 0611411 A 24-08-1994 WO 9310327 A 27-05-1993 NO 941737 A 10-05-1994 27-02-1996 US 5494110 A BR 9103428 A 09-03-1993 AU 655048 B 01-12-1994 AU 2088192 A 11-02-1993 CA 2075255 C 25-04-1995 FI 923504 A 10-02-1993 MX 9204576 A 01-02-1993 NO 923097 A 10-02-1993 US 5299641 A 05-04-1994 CA 1264289 A 09-01-1990 DE 3606083 A 18-09-1986 DK 95486 A 02-09-1986 GB 2171736 A,B 03-09-1986

01-10-1986

02-09-1986

FR 2610364	Α	05-08-1988	NONE		
US 4461354	Α	24-07-1984	NONE		
US 4589493	Α	20-05-1986	NONE		****
GB 2320513	Α	24-06-1998	US BR	5868204 A 9706355 A	09-02-1999 04-05-1999

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8600510 A

860724 A